

# The RESILIENCE Climate Service for Energy

## Predicting Renewable Power over Future Monthly to Decadal Timescales

“[Renewable] energy provision may be anticipated, not only in the short and long term as it is today, but also at intermediate horizons, where a huge market niche appears.” Ignacio Lainez Aracama, Professor of Wind Energy, EOI and Director of Energy Assessments, EDP

### MINIMISE UNCERTAINTY

The **RESILIENCE** service offers climate prediction reports tailored to the energy sector. It represents the cutting-edge in climate science, to predict how future climate variability will affect renewable power generation.

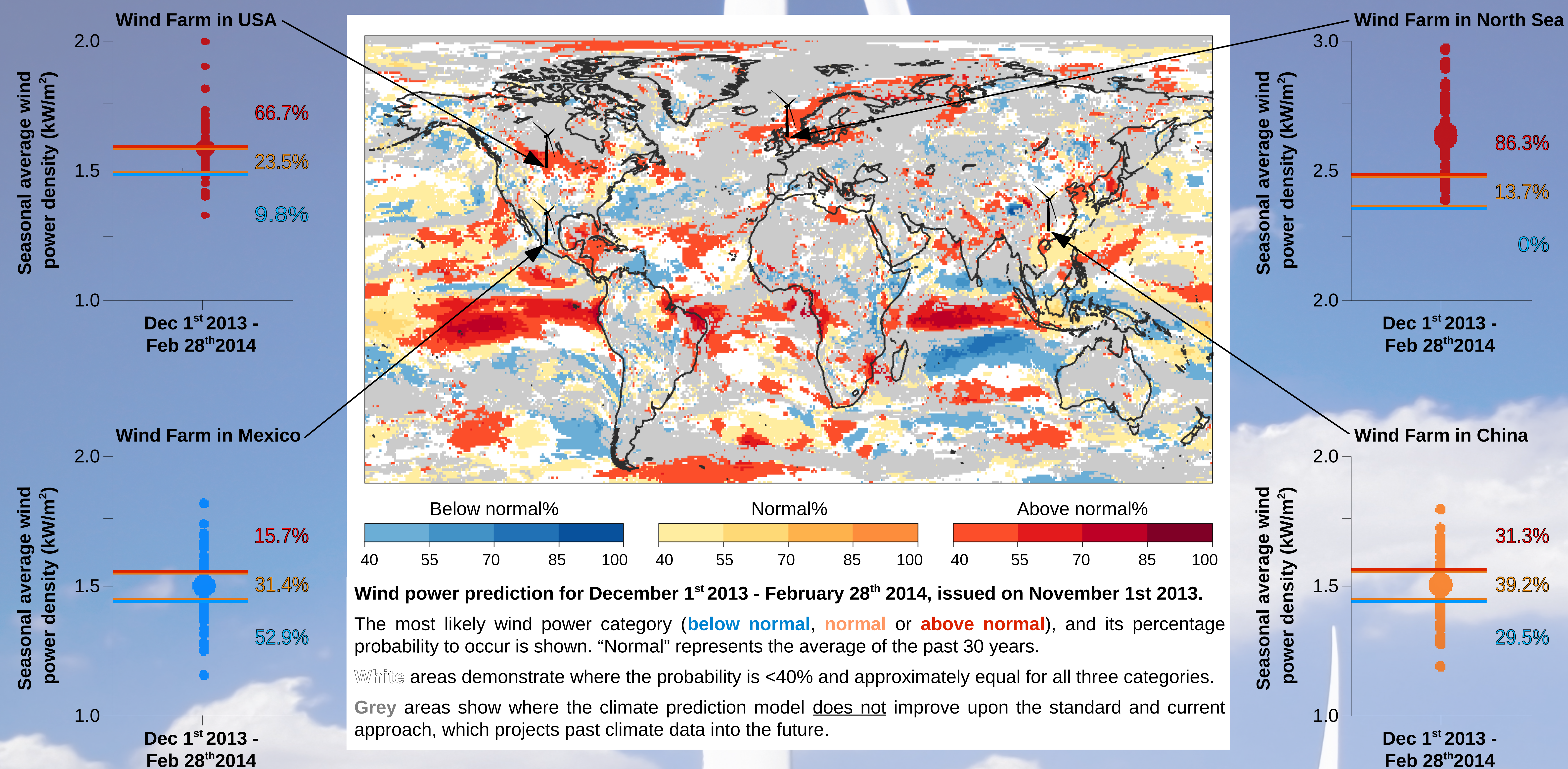
### MANAGE RISK

Climate predictions represent the most robust information currently available, by demonstrating a range of possible scenarios for future power generation, as well as a probability of which will be the most likely outcome.

### OPTIMISE STRATEGIES

Significant cost savings can be made with a better anticipation of market changes, thus identifying vulnerabilities and risks in advance. This, in turn, can facilitate calculated and precautionary climate adaptation action.

## Illustrative examples of seasonal wind power predictions



**Logistical planning for energy managers & traders:** improving predictions of renewable power generation, from one month to one year ahead, can have an impact on its market price and stability.

**Strategic planning for energy investors & developers:** improving the prediction of a renewable energy project's power generation, from one year to its full lifetime, is crucial to its successful development, and a strong and consistent return on investment.